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Sequence Listing was accepted.

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Reviewer: markspencer

Timestamp: [year=2009; month=3; day=6; hr=15; min=32; sec=18; ms=271; ]

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Application No: 10593413 Version No: 2.0

**Input Set:**

**Output Set:**

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**Finished:** 2009-02-13 08:53:41.640  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 362 ms  
**Total Warnings:** 9  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 11  
**Actual SeqID Count:** 11

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SEQUENCE LISTING

<110> Kim, Hyo-Joon

<120> ANTI-OBESE IMMUNOGENIC HYBRID POLYPEPTIDES AND ANTI-OBESE VACCINE  
COMPOSITION COMPRISING THE SAME

<130> 0220.00002

<140> 10593413

<141> 2009-02-13

<160> 11

<170> PatentIn version 3.5

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<212> PRT

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Arg Phe Arg Gly Leu Ile Ser Leu Ser Gln Val Tyr Leu Asp Pro  
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aatgatgtt attggattgc attc 204

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Val Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala  
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Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile  
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Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp  
35 40 45

Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr  
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Trp Ile Ala Phe  
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<213> Hepatitis B virus

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tat ttcctg ctggggctc cagttccgga acagtaaacc ctgttccgac tactgcctca 120

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1 5 10 15

Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val

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Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser Ile Phe Ser Arg

35 40 45

Thr Gly Asp Pro Ala Pro Asn Leu Glu Arg Ser

50 55

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atcttcaatg atgtttattg gattgcattc ctcgaccgt aatgttcctc tttttcaat 180

gatgtttattt ggattgcattt ctcgaccgtt aatgttcctc tttttcaat tttttttat 240

tggattgcattt tcctcgacat gcagtggaaac tccaccacat tccaccaagc tctgctagat 300

cccaaggtga ggggcctata ttttcctgct ggtggctcca gttccggaaac agtaaaccct 360

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20 25 30

Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr  
35 40 45

Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val  
50 55 60

Tyr Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp  
65 70 75 80

Val Tyr Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn  
85 90 95

Asp Val Tyr Trp Ile Ala Phe Leu Asp Met Gln Trp Asn Ser Thr Thr  
100 105 110

Phe His Gln Ala Leu Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro  
115 120 125

Ala Gly Gly Ser Ser Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala  
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Leu Glu Arg Ser

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tatttcctg ctgggtggctc cagttccgga acagtaaacc ctgttccgac tactgcctca 180

cccatatcgt caatcttctc gaagactggg gaccctgcac cgaacctcga ccgtaatgtt 240

cctcctatct tcaatgatgt ttattggatt gcattcctcg accgtaatgt tcctcctatc 300

ttcaatgatg tttattggat tgcatttcctc gaccgtaatg ttccctctat cttcaatgat 360

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Leu Ile Val Asp Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu  
20 25 30

Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser  
35 40 45

Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser  
50 55 60

Ile Phe Ser Leu Thr Gly Asp Pro Ala Pro Asn Leu Asp Arg Asn Val  
65 70 75 80

Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg Asn  
85 90 95

Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg  
100 105 110

Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp  
115 120 125

Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe  
130 135 140